

002260 689 092200

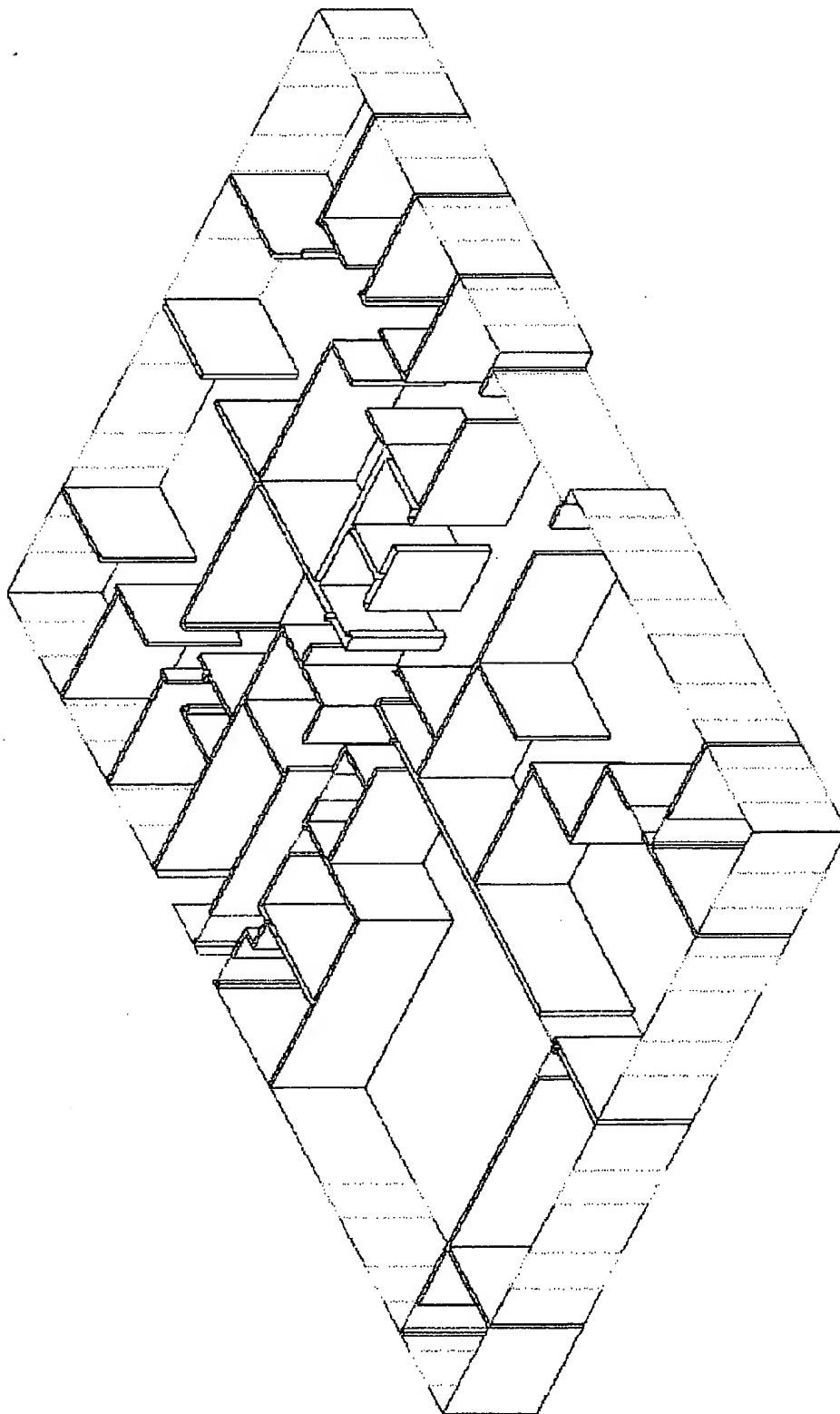


Figure 1

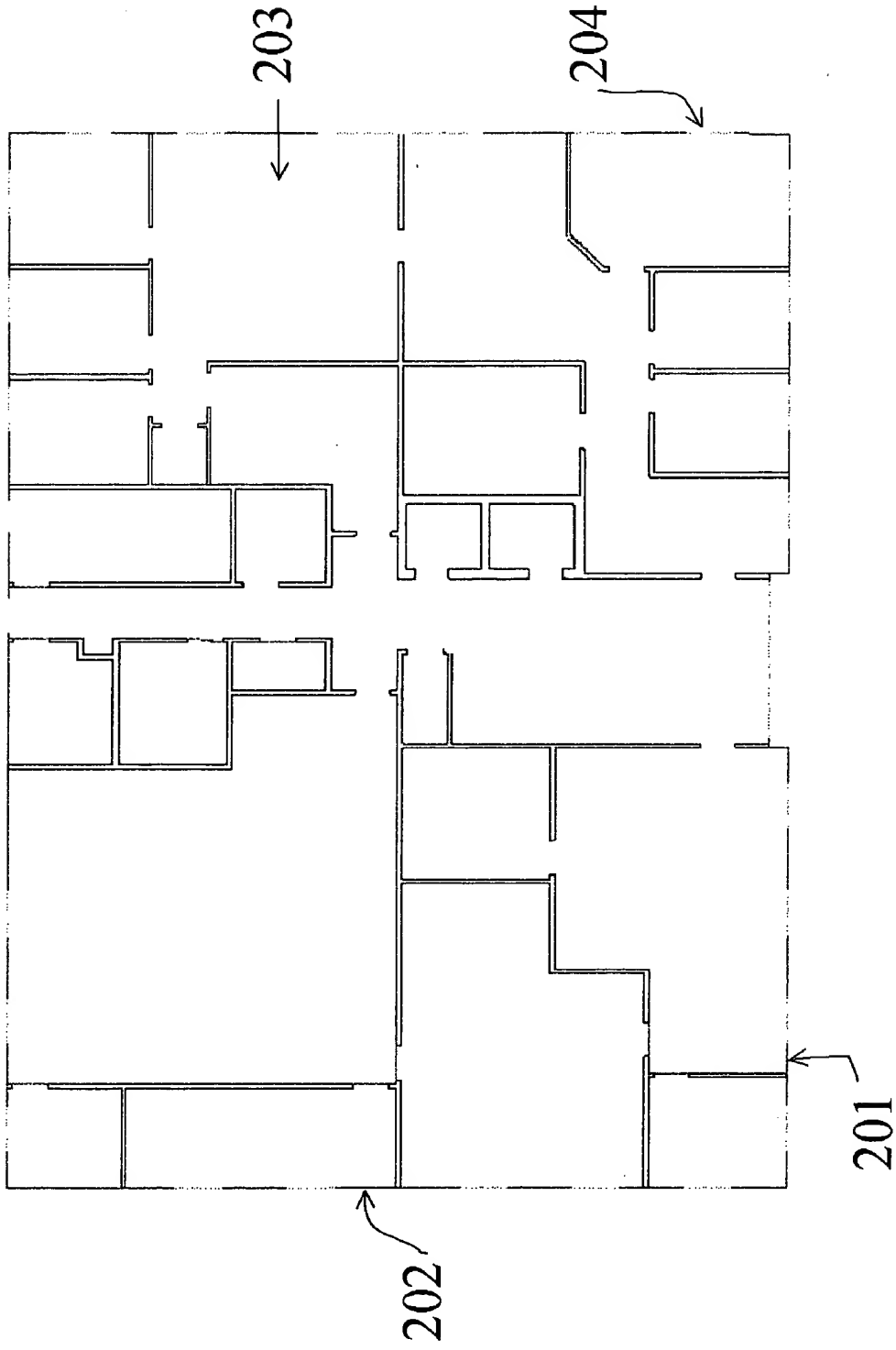


Figure 2

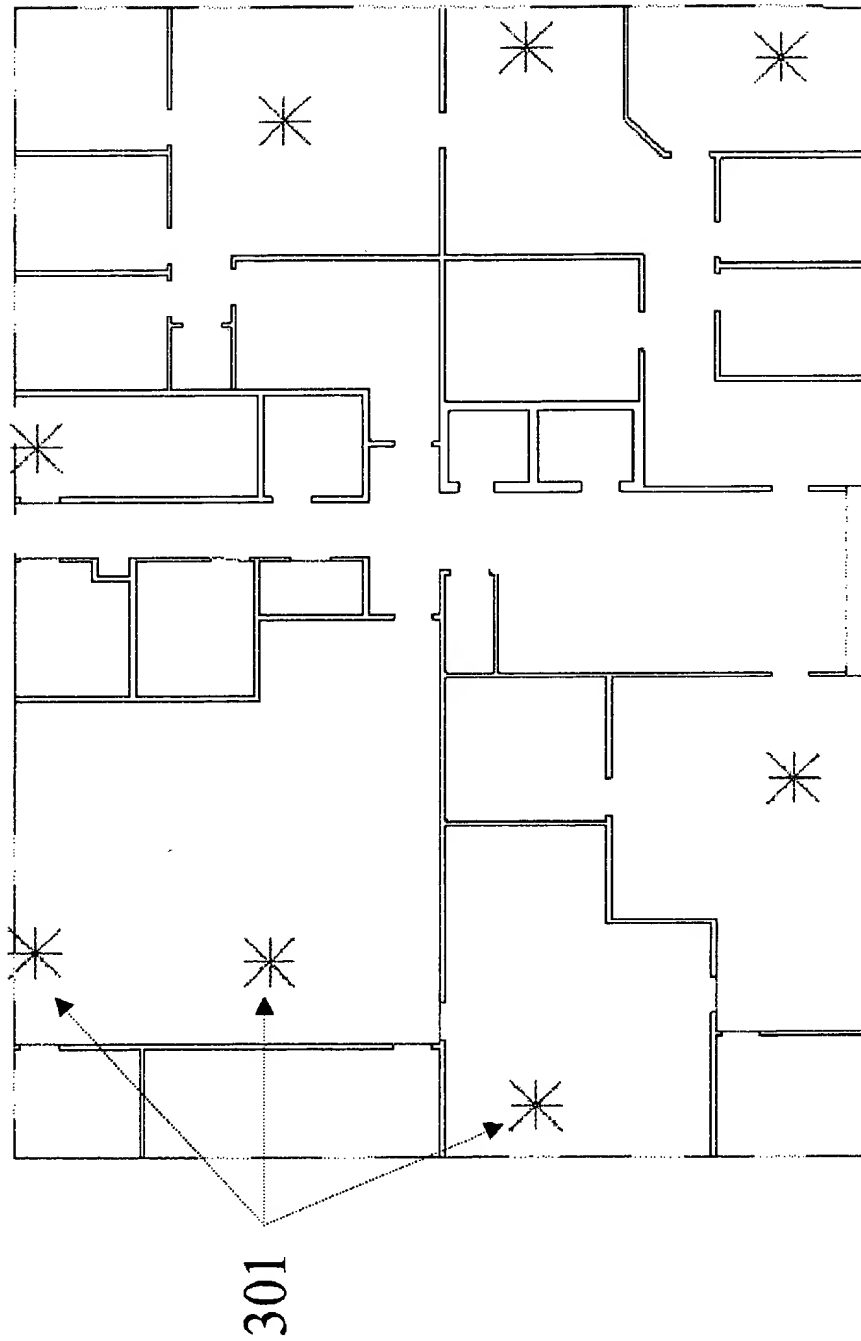


Figure 3

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Select Components from Database to Add									
Type	Manufacturer	Part #	Description	Units (dB)	Connections	Physical Ext.	Installation Cost		
ANTENNA POINT	Decibel Products	D8684 H45	45 deg 15 dB Gain	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8684 H60	60 deg 14.3 dB Gain	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8686 H60	60 deg 15 dB Gain	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8684 H60	60 deg 13 dBd gain panel	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8689 H60	60 deg 16 dB gain panel	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8560 H90M	50 deg 13.5 dBd Gain PCS 45/45	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8574 H105 1920	105 deg 10.50 dB Gain 1920 MHz	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8374 H90	11 dBd Gain 90 deg	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8578 H120	120 deg 13 dBd Gain PCS	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8578 H90M	90 deg 14 dBd Gain PCS	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8580 H105 M	105 deg 14.5 dBd Gain PCS	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8580 H120 M	120 deg 14 dBd Gain PCS	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8580 H65 M	65 deg 16.5 dBd Gain PCS	0.00	1	0.00	0.00		
ANTENNA POINT	Decibel Products	D8580 H90M	90 deg 15 dBd Gain PCS	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	105100UNAS	Wireless 105 deg 5.5 dBd Gain Panel	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	80150UNA	60 deg 15.0 dBd gain panel	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	90090UNA	90 deg 9.3 dBd gain Panel	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	90090UNA5	90 deg 9.5 dBd gain panel	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	90091UNA	90 deg 9.5 dBd gain panel	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	90091UNA5	90 deg 9.5 dBd gain panel	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	90120UNA	90 deg 12 dBd gain Panel	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	90120UNA5	90 deg 12.0 dBd gain Panel	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	90120UNA5	90 deg 12.5 dBd gain Panel	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	90130UNA	90 deg 13.3 dBd gain Panel	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	DV105-08-00_A2	OptiRange 8dBd Vertical Polar Array	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	DV105-08-00_M2	OptiRange 8dBd Vertical Polar Array	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	DV105-09-00_A2	OptiRange 9dBd Vertical Polar Array	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	DV105-09-00_M2	OptiRange 9dBd Vertical Polar Array	0.00	1	0.00	0.00		
ANTENNA POINT	EMS Wireless	DV65-10-00_A2	OptiRange 10dBd Vertical Polar Array	0.00	1	0.00	0.00		

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Add Selected Component(s) >>

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Figure 4

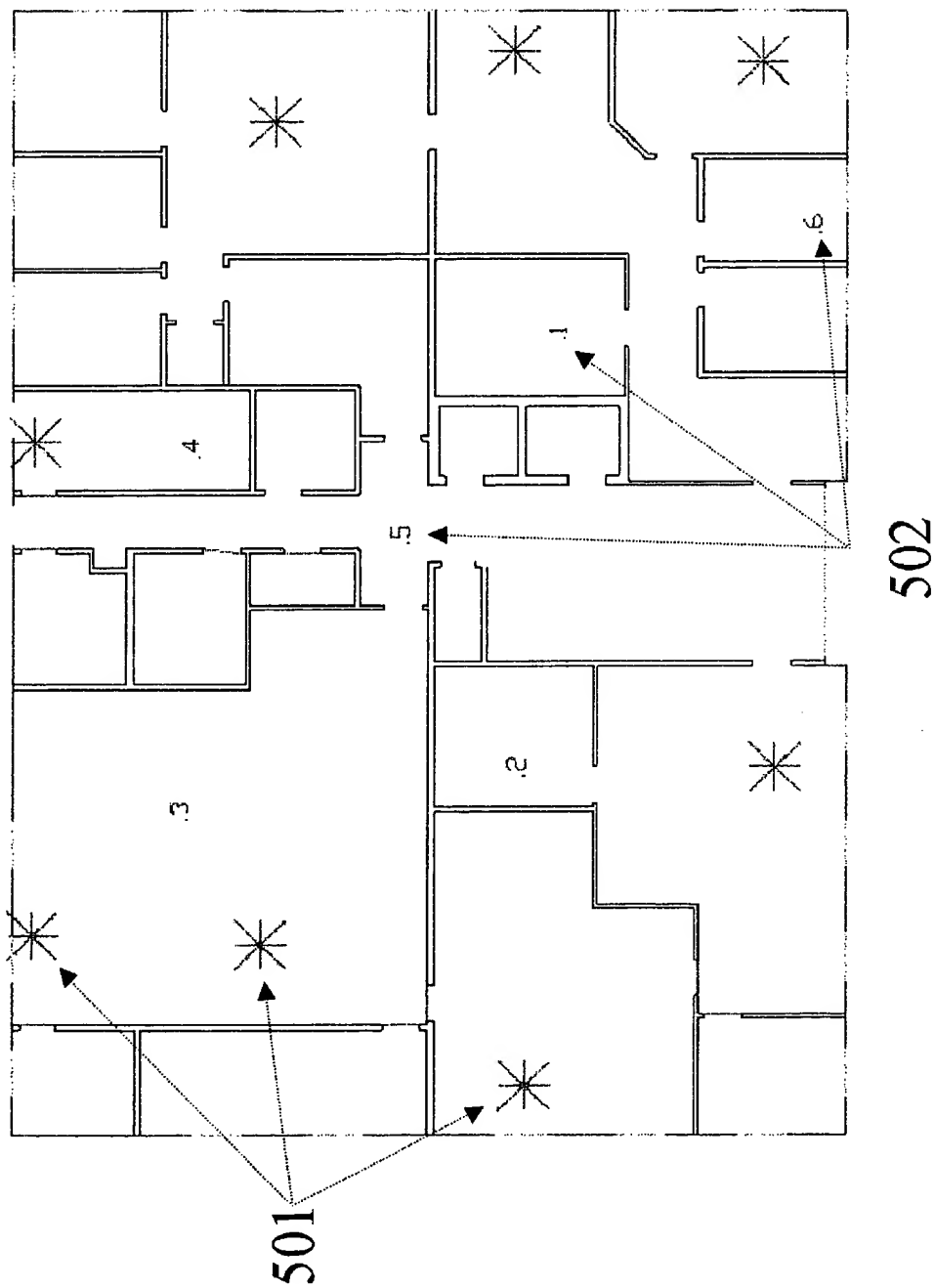


Figure 5

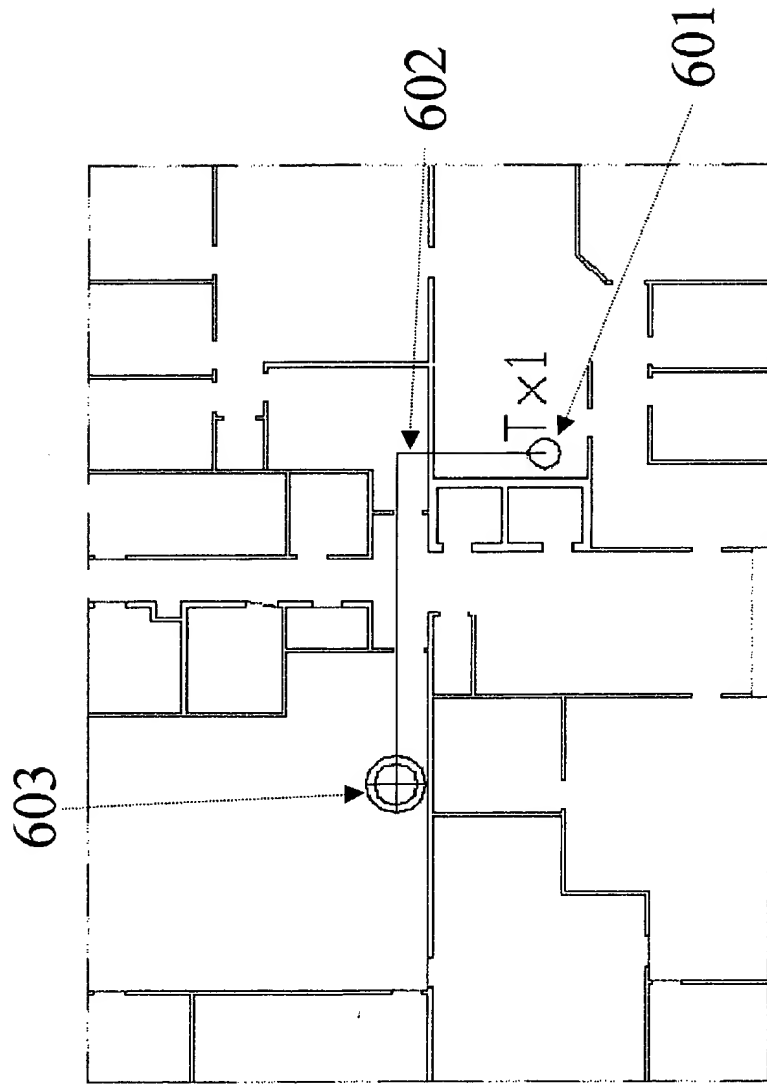


Figure 6

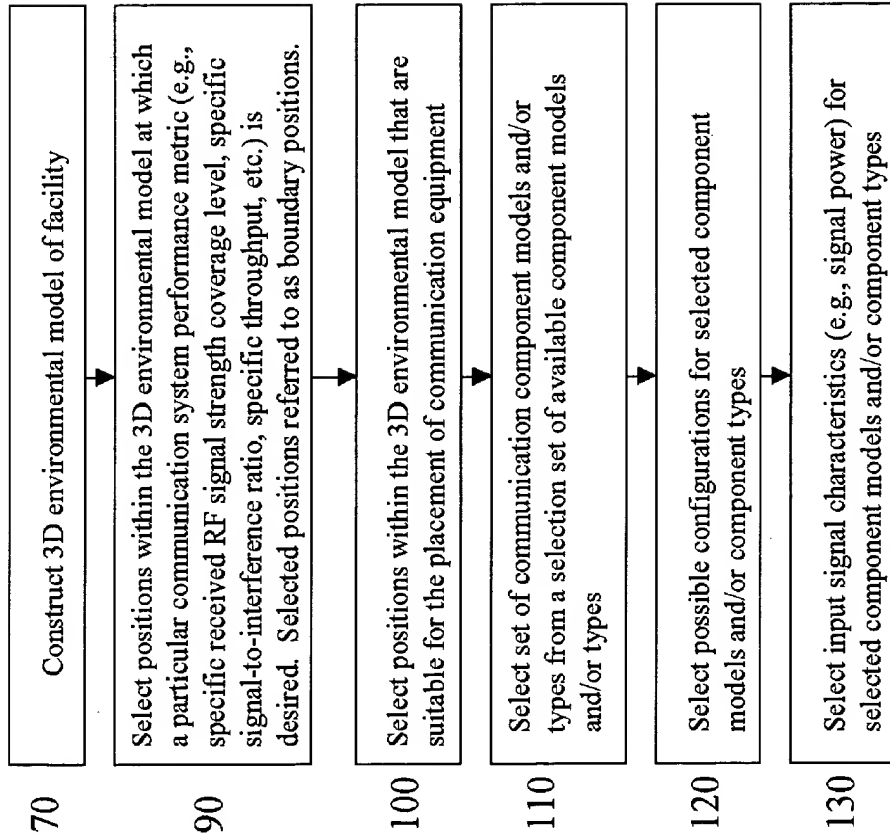


Figure 7

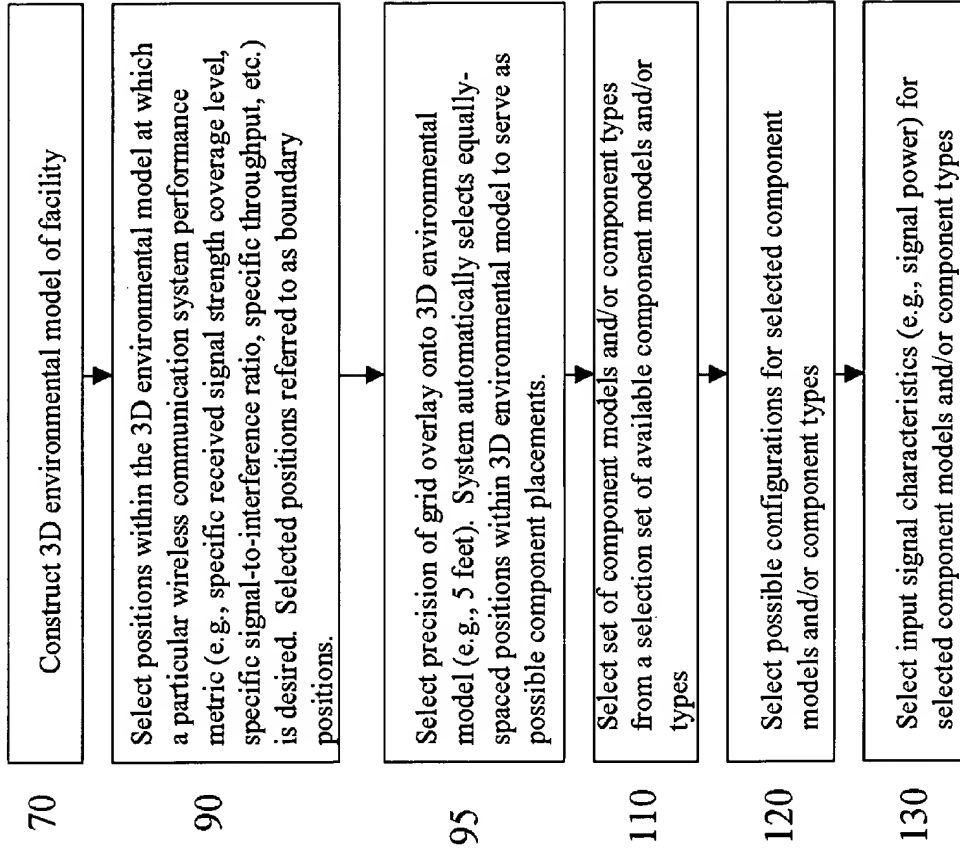


Figure 8

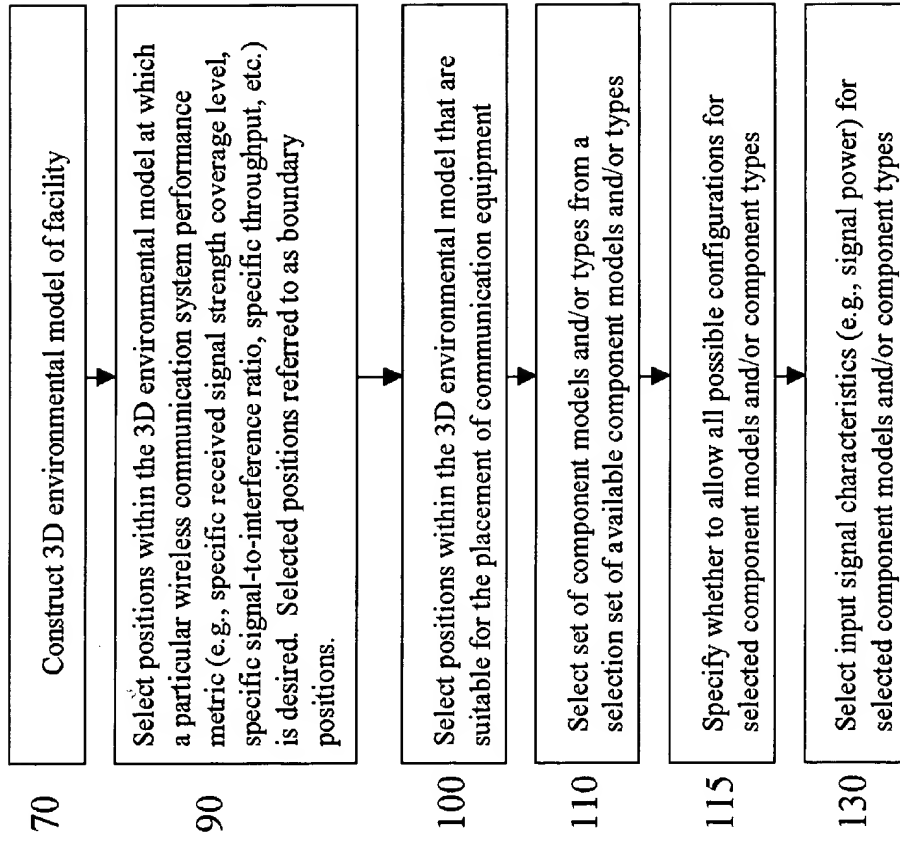


Figure 9

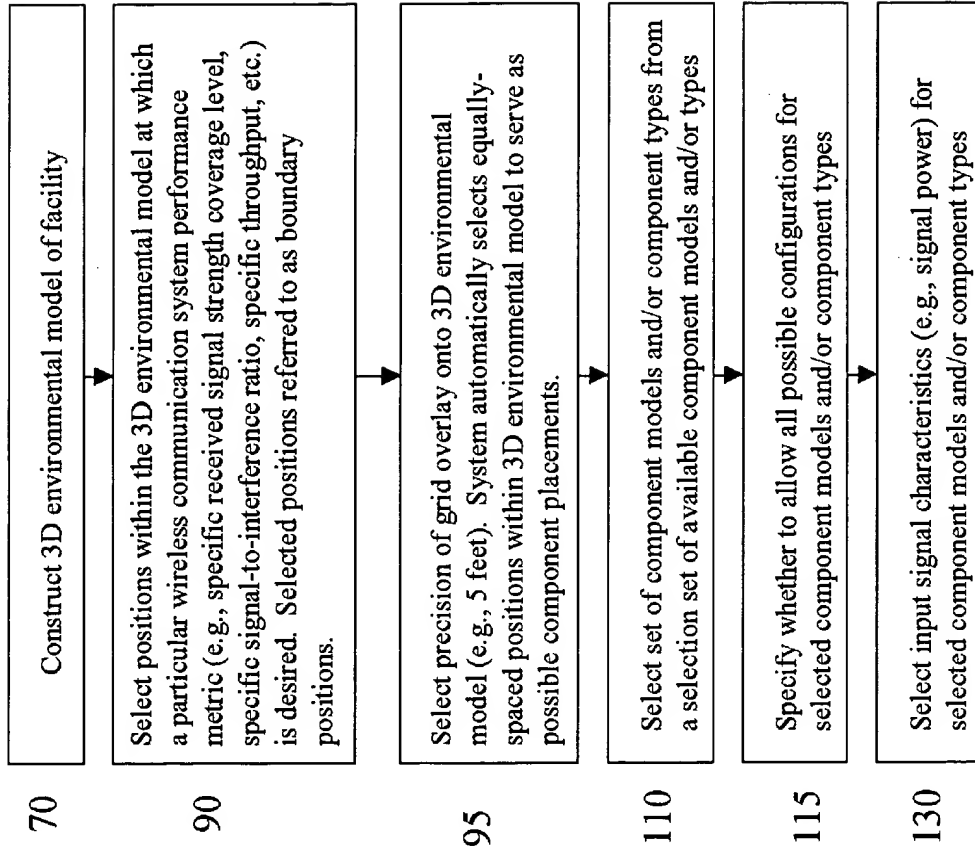


Figure 10

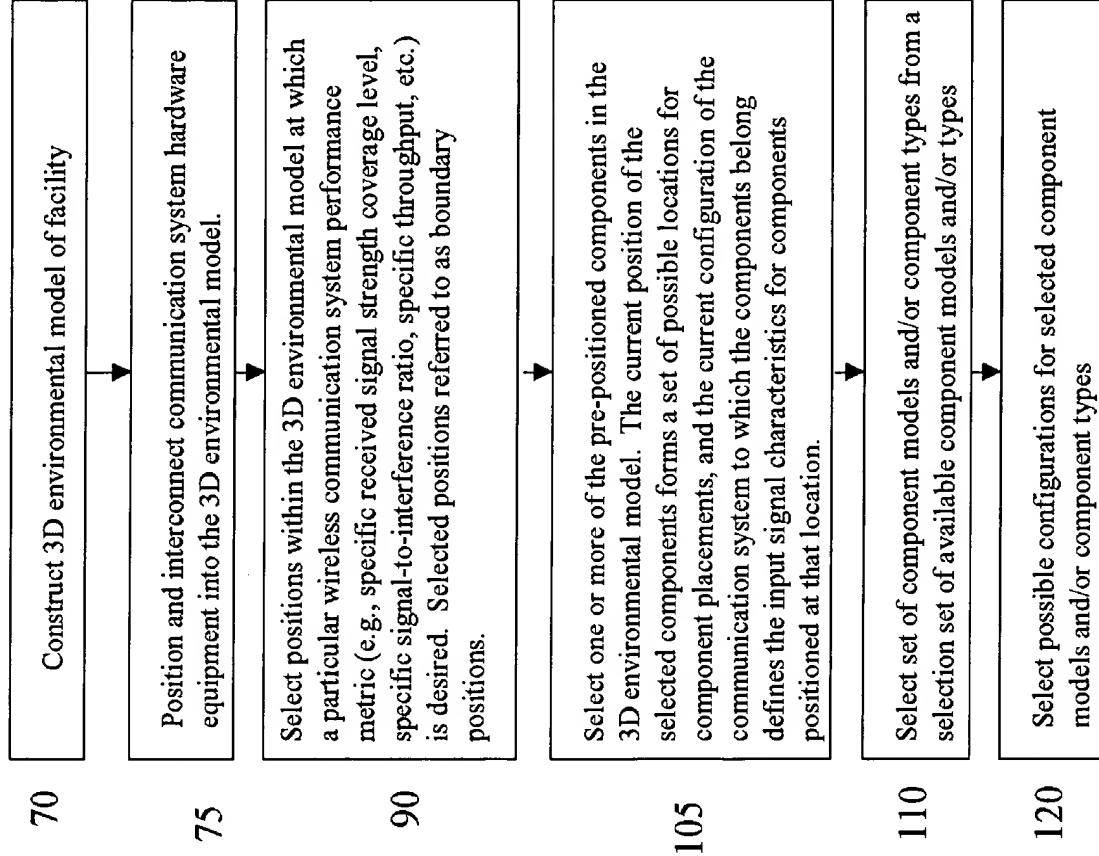


Figure 11

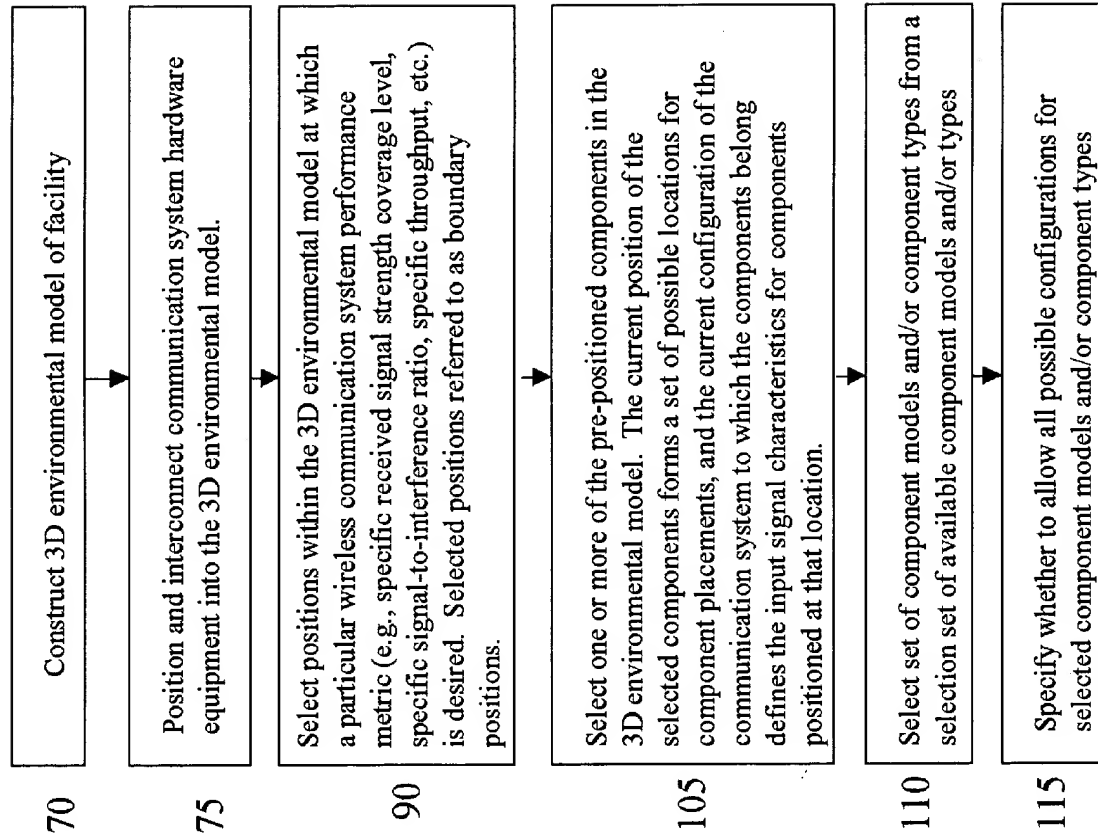


Figure 12

From Figure 7, Figure 8, Figure 9, Figure 10, Figure 11, or Figure 12

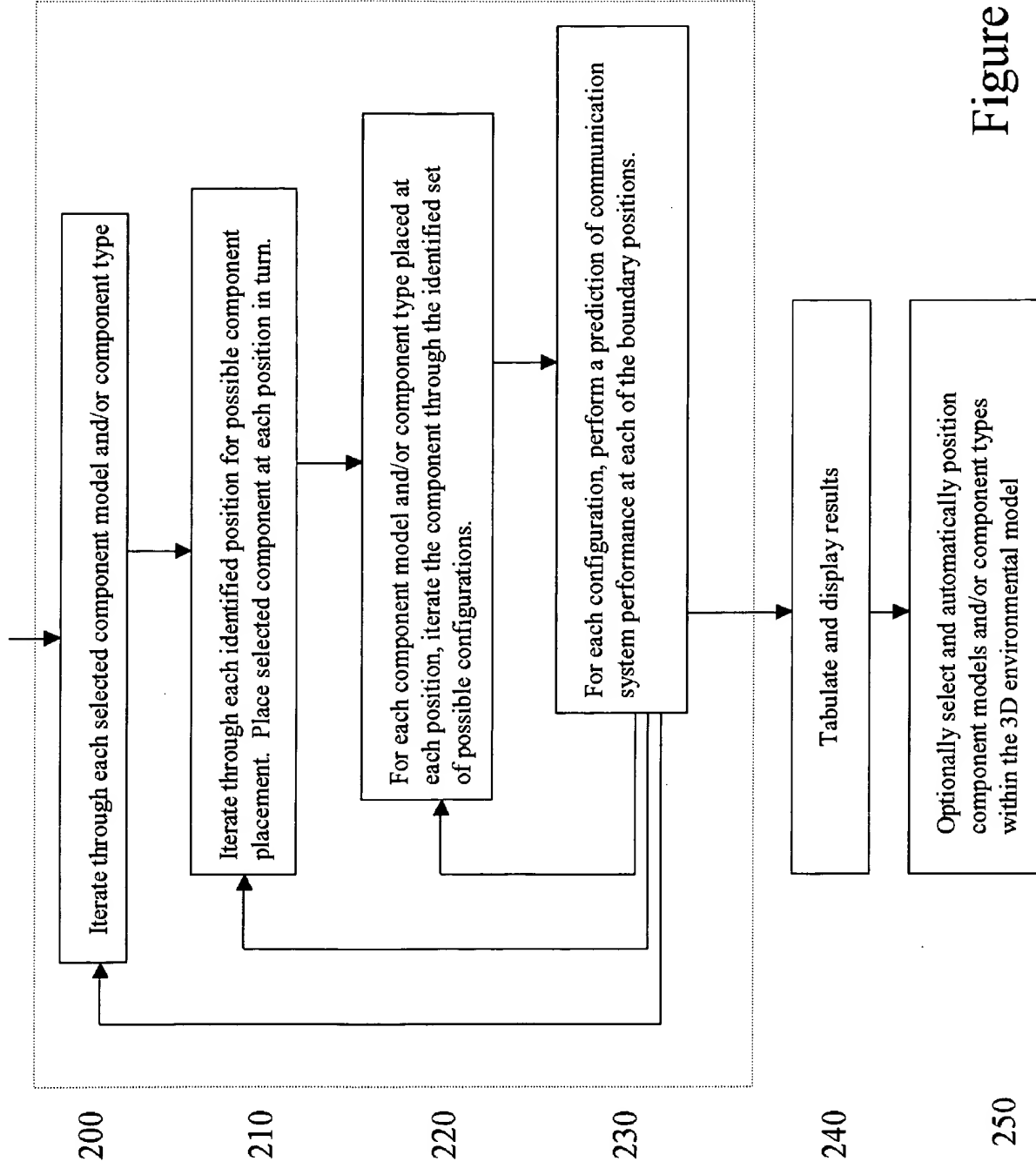


Figure 13

Antenna Optimization Results									
Manufacturer	Part #	Description	Height	Std. Dev.	X-Axis Rotation	Y-Axis Rotation	Z-Axis Rotation		
Allen Telecom	ASP2333 1920	dB OMNI PCN 1650-1930 360 deg 3.00 dB Gain	0.00 dB	0.62 dB	210.00 deg	0.00 deg	250.00 deg		
Algon	7144.23	50 deg 10 dBd Gain	0.00 dB	0.75 dB	310.00 deg	50.00 deg	150.00 deg		
Antel	RWA-80010	78 deg 10 dBd Gain	0.00 dB	0.75 dB	260.00 deg	0.00 deg	130.00 deg		
Antenna Specialist	ASP553	60 deg 17 dB gain	0.00 dB	0.68 dB	80.00 deg	0.00 deg	130.00 deg		
Celways	PD1100	7.5 dB Gain OMNI	0.00 dB	0.77 dB	90.00 deg	0.00 deg	230.00 deg		
COMSAT-RSI Mark	PCS A 052-16-5	65 deg 16.8 dBd Gain PCS w/5 deg 0/1	0.00 dB	0.68 dB	120.00 deg	90.00 deg	320.00 deg		
Dapa	5800DX	Dual (Slant 45) Polarized 50-ghz 300W	0.00 dB	0.70 dB	130.00 deg	0.00 deg	320.00 deg		
Deedol Products	D8875 H83	83 deg 15.2 dB Gain	0.00 dB	0.70 dB	170.00 deg	0.00 deg	310.00 deg		
EMS Wireless	F550-11-00 M2	Opt FH 11.5 dBd Vert/Slant 45 Polar Array	0.00 dB	0.74 dB	260.00 deg	0.00 deg	320.00 deg		
GENERIC	VERTICAL DIPOLE QUARTER	5 dBd Max gain	0.00 dB	0.60 dB	120.00 deg	0.00 deg	20.00 deg		
Hazelline	806-050-14-0870	50 deg 15.13 dBd Gain 870 MHz	0.00 dB	0.70 dB	140.00 deg	0.00 deg	330.00 deg		
Kathren	740247	5 dB Gain OMNI	0.00 dB	0.79 dB	20.00 deg	0.00 deg	280.00 deg		
Mark	CA108805	Mark 10 dB Gain OMNI	0.00 dB	0.75 dB	270.00 deg	0.00 deg	50.00 deg		
Scala	OP16-875	Scala 49 deg 15 dB Gain (same as 740215)	0.00 dB	0.69 dB	140.00 deg	0.00 deg	330.00 deg		
Sinclair	SRL411 CARI05	105 deg 5.5 dB Gain	0.00 dB	0.75 dB	310.00 deg	50.00 deg	150.00 deg		
Sweden Corporation	ALP9212N	92 deg 11.3 dB Gain	0.00 dB	0.74 dB	80.00 deg	0.00 deg	320.00 deg		
TIL-TEK	TA 803 60	TIL-TEK 80 deg 12.5 dB Gain	0.00 dB	0.00 dB	0.00 deg	0.00 deg	0.00 deg		

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Figure 14

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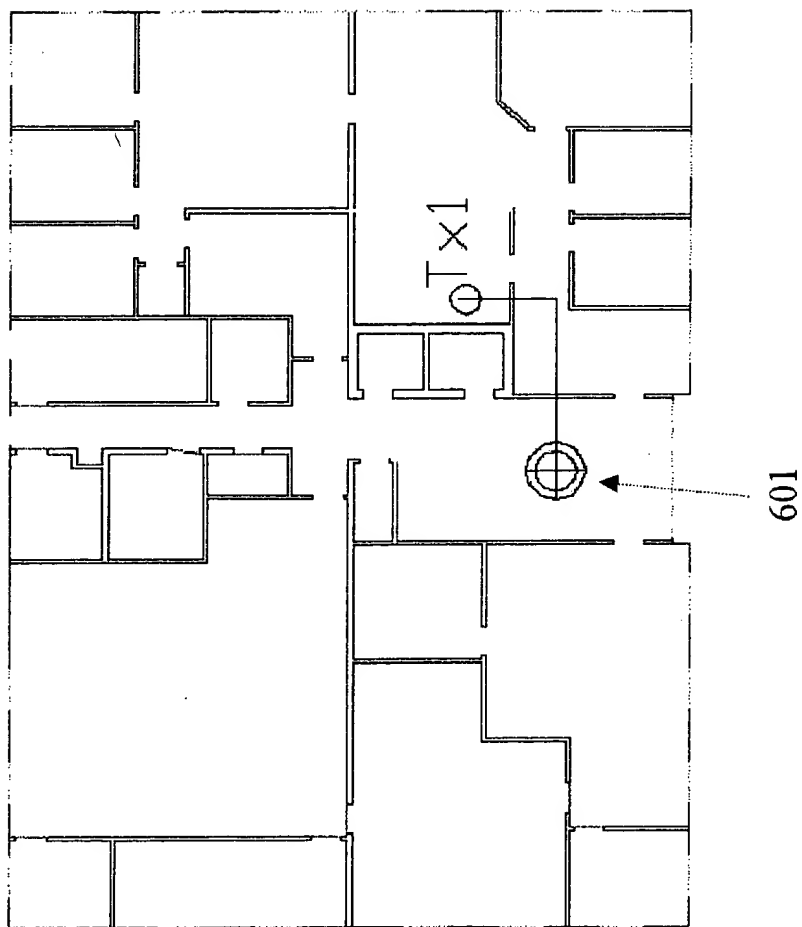


Figure 15